

Two-bottle drinking procedure

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 An abbreviated version of this protocol was published in Science Advances in Nov 2021

Social isolation-related depression accelerates ethanol intake via microglia-derived neuroinflammation

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Detailed protocol

Detailed protocol for two-bottle drinking procedure

According to previous investigational study, the C57BL/6J strain was appropriate to evaluate voluntary ethanol intake among 15 inbred mice (doi: 10.1007/BF02244901). During the 1-week acclimation period, mice were adapted to two-bottle choice procedure (two graduated cylinders containing tap water). After division of mice to each group randomly, ethanol administration group was adopted to 5% ethanol containing bottle and tap water containing bottle for 3 days to familiarize with initial ethanol exposure. Then mice were allowed to freely intake 10% ethanol or tap water for 28 days, with the exchanging two bottles position to avoid a positional preference at 4-days intervals.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Son, C. and Lee, J. (2023). Two-bottle drinking procedure. Bio-protocol Preprint. bio-protocol.org/prep2208.
2. Lee, J., Lee, S., Kim, D., Shin, N., Jeong, S., Yang, C. and Son, C. (2021). Social isolation-related depression accelerates ethanol intake via microglia-derived neuroinflammation. Science Advances 7(45). DOI: [10.1126/sciadv.abj3400](https://doi.org/10.1126/sciadv.abj3400)

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